

### **WHAT IS CLAIMED IS:**

1. A foldable skeleton, comprising an upper frame, four upright rods, and a bottom frame, wherein:

the upper frame includes two pairs of first rods, two pairs of second  
5 rods, four joints, and four connecting seats;

the joints are mounted between two adjacent first rods and mounted between two adjacent second rods respectively;

each of the joints includes a main base, a press button, a cover, a locking block, an elastic member, and two linking blocks;

10 the main base has a first side plate formed with a receiving hole and a second side plate formed with a cruciform slot;

each of the first rods has a first end pivotally mounted on an end of a respective one of the main base and a second end mounted on a respective one of the connecting seats;

15 each of the second rods has a first end pivotally mounted on an end of a respective one of the main base and a second end mounted on a respective one of the connecting seats;

the press button is movably mounted in the receiving hole of the second side plate of the main base;

20 the cover is secured on the second side plate of the main base and has an inside formed with a receiving recess;

the locking block is movably mounted in the cruciform slot of the main base and has a first portion formed with a mounting section secured on the press button to move therewith and a second portion formed with an action section that is movable into the receiving recess of the cover;

5           the elastic member is mounted on the mounting section of the locking block and is urged between the press button and the main base to press the press button to move outward relative to the cover;

each of the linking blocks has a first end mounted in the first end of each of the first rods or mounted in the first end of each of the second rods to  
10   pivot therewith and a second end detachably rested on the action section of the locking block, so that each of the linking blocks is fixed on the main base by the locking block;

each of the four upright rods has a first end mounted on a respective one of the connecting seats;

15           the bottom frame includes four support seats, four bottom rods, two linking gears, a connecting base, a pull member, and an operation member;

each of the support seats is mounted on a second end of a respective one of the upright rods and has a side formed with a pivot ear;

each of the bottom rods has a first end pivotally mounted on the pivot  
20   ear of a respective one of the support seats and a second end pivotally mounted on a respective one of the linking gears;

each of the linking gears has a first end formed with two spaced side plates and a receiving space located between the two side plates, each of the two side plates of each of the linking gears has a first side formed with a cutout and a second side formed with a plurality of teeth, the teeth of the two linking  
5 gears mesh with each other;

the connecting base is mounted on the linking gears to encompass the two linking gears;

the pull member is mounted on the linking gears to move the two linking gears and includes a combination section mounted in the receiving  
10 space of each of the linking gears and a top plate mounted on a top of the combination section, the combination section of the pull member is formed with a receiving slot, and the top plate of the pull member is formed with a rectangular slot communicating with the receiving slot; and

the operation member is rotatably mounted on the pull member and  
15 has a bottom formed with a rectangular press block rotatably mounted in the receiving slot of the pull member and rested on the cutout of the two linking gears.

2. The foldable skeleton in accordance with claim 1, wherein the main base is substantially U-shaped.

20 3. The foldable skeleton in accordance with claim 1, wherein the cover has a periphery formed with two opposite locking snaps each extended

through the cruciform slot of the second side plate of the main base and locked on the second side plate of the main base.

4. The foldable skeleton in accordance with claim 1, wherein the locking block is substantially T-shaped.

5           5. The foldable skeleton in accordance with claim 1, wherein the press button has an inside formed with a screw bore, and the mounting section of the locking block has a distal end formed with an outer thread screwed into the screw bore of the press button.

10           6. The foldable skeleton in accordance with claim 1, wherein the first end of each of the first rods is formed with a through hole, the first end of each of the second rods is formed with a through hole, each of the two side plates of the main base has two ends each formed with a through hole, the first end of each of the linking blocks is formed with a through hole, and each of the joints further includes two pivot shafts each extended through the respective through  
15           hole of the main base, the through hole of the respective first rod or the through hole of the respective second rod, and the through hole of the respective linking block.

20           7. The foldable skeleton in accordance with claim 1, wherein the second end of each of the linking blocks is formed with a substantially L-shaped cutout rested on the action section of the locking block.

8. The foldable skeleton in accordance with claim 7, wherein the action section of the locking block has a first side formed with two spaced

locking grooves and a second side formed with two spaced ramps, and the cutout of each of the linking blocks is formed with a locking rib detachably locked in the respective locking groove of the action section of the locking block.

5           9. The foldable skeleton in accordance with claim 1, wherein each of the linking gears has a second end formed with a hollow mounting portion for mounting the bottom rods.

10           10. The foldable skeleton in accordance with claim 9, wherein the mounting portion of each of the linking gears is formed with a through hole, the first end of each of the bottom rods is formed with a through hole, and the bottom frame further includes two pivot shafts each extended through the through hole of a respective one of the linking gears and the through hole of two adjacent bottom rods.

15           11. The foldable skeleton in accordance with claim 1, wherein the connecting base is substantially U-shaped.

12. The foldable skeleton in accordance with claim 1, wherein the combination section of the pull member is substantially U-shaped.

20           13. The foldable skeleton in accordance with claim 1, wherein each of the two side plates of each of the linking gears has a center formed with a through hole, the connecting base has two side plates each having two ends each formed with a through hole, the combination section of the pull member has two ends each formed with a through hole, and the bottom frame further

includes two pivot shafts each extended through the respective through hole of the connecting base, the through hole of a respective one of the linking gears and the respective through hole of the combination section of the pull member.

14. The foldable skeleton in accordance with claim 1, wherein the  
5 press block of the operation member is rotatable to align with the rectangular slot of the pull member.

15. The foldable skeleton in accordance with claim 1, wherein the top plate of the pull member is formed with an extension located above the receiving slot and rested on the press block of the operation member.

10 16. The foldable skeleton in accordance with claim 1, wherein the bottom frame further includes a handle pivotally mounted on the operation member for rotating the operation member.

17. The foldable skeleton in accordance with claim 1, wherein the bottom frame further includes a positioning shaft extended through the  
15 operation member and fixed on the combination section of the pull member.

18. The foldable skeleton in accordance with claim 17, wherein the bottom frame further includes a compression member mounted on positioning shaft and urged between the press block of the operation member and the combination section of the pull member.

20 19. The foldable skeleton in accordance with claim 17, wherein the receiving slot of the pull member has a bottom formed with a screw bore, and

the positioning shaft has a distal end formed with an outer thread screwed into the screw bore of the pull member.